

Title (en)

BATTERY, POWER UTILIZATION DEVICE, AND BATTERY PREPARATION METHOD AND APPARATUS

Title (de)

BATTERIE, STROMVERBRAUCHSVORRICHTUNG UND VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG EINER BATTERIE

Title (fr)

BATTERIE, DISPOSITIF D'UTILISATION D'ÉNERGIE, ET APPAREIL ET PROCÉDÉ DE PRÉPARATION DE BATTERIE

Publication

EP 4009434 A4 20220608 (EN)

Application

EP 20827955 A 20201019

Priority

CN 2020121992 W 20201019

Abstract (en)

[origin: US2022118861A1] Embodiments of the present application relates to a battery, a power consumption device, and a method and device for producing a battery. The battery includes: a battery cell, the battery cell including a pressure relief mechanism; a fire-fighting pipeline configured to accommodate a fire-fighting medium, the fire-fighting pipeline including a first region corresponding to the pressure relief mechanism and a second region located at a periphery of the first region, the first region being configured to be damaged when the pressure relief mechanism is actuated, such that the fire-fighting medium is discharged; and a protective component disposed between the fire-fighting pipeline and the battery cell and configured to protect the second region. The battery, the power consumption device, and the method and device for producing the battery in the embodiments of the present application could improve the safety performance of the battery.

IPC 8 full level

H01M 50/383 (2021.01); **A62C 35/11** (2006.01); **H01M 10/6556** (2014.01); **H01M 10/6567** (2014.01); **H01M 10/658** (2014.01); **H01M 50/317** (2021.01); **H01M 50/342** (2021.01); **H01M 50/375** (2021.01)

CPC (source: EP KR US)

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Citation (search report)

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- [X] EP 3333932 A1 20180613 - SAMSUNG SDI CO LTD [KR]
- [A] DE 102011075318 A1 20121108 - SB LIMOTIVE CO LTD [KR], et al
- [A] JP 2017147128 A 20170824 - MITSUBISHI HEAVY IND LTD
- See also references of WO 2022082389A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 2022118861 A1 20220421; EP 4009434 A1 20220608; EP 4009434 A4 20220608; EP 4009434 B1 20230802; HU E063718 T2 20240128; JP 2023534700 A 20230810; JP 7350213 B2 20230925; KR 102646202 B1 20240312; KR 20230024993 A 20230221; WO 2022082389 A1 20220428

DOCDB simple family (application)

US 202017138761 A 20201230; CN 2020121992 W 20201019; EP 20827955 A 20201019; HU E20827955 A 20201019; JP 2023504066 A 20201019; KR 20237001610 A 20201019